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(71) Applicant: **NISCA CORP**(72) Inventor: **KUBOTA MINEO
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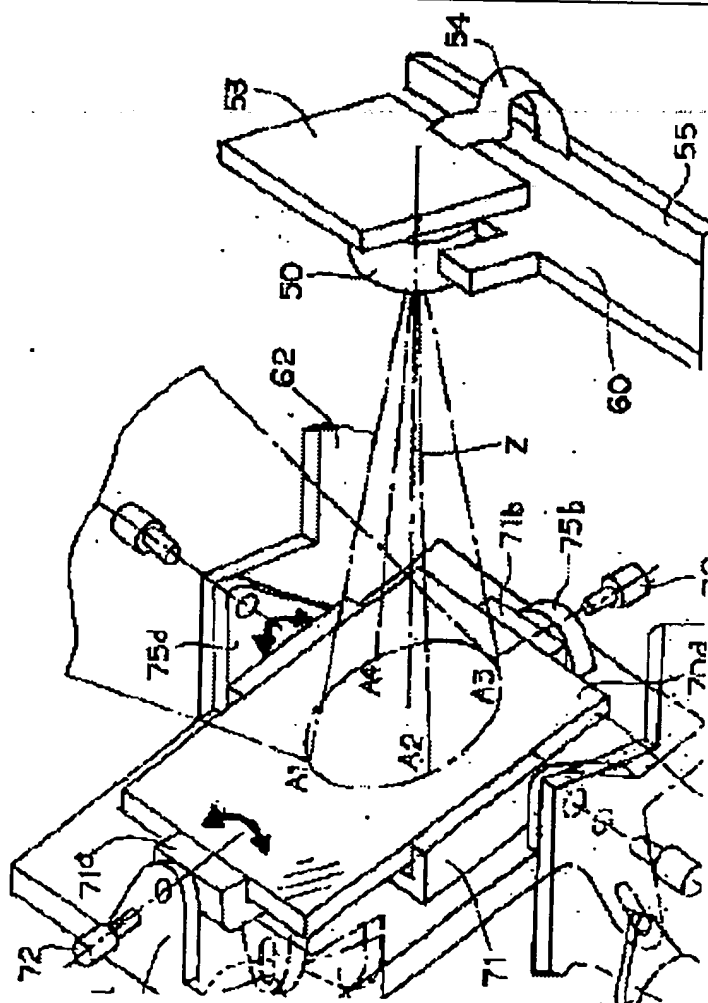
(74) Representative:

(54) PAN TILT CAMERA, AND MIRROR UNIT FOR THE SAME

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a camera mirror unit for preventing the occurrence of image blurring, as for a camera for continuously photographing a moving image in plural various positions in an image pickup direction.

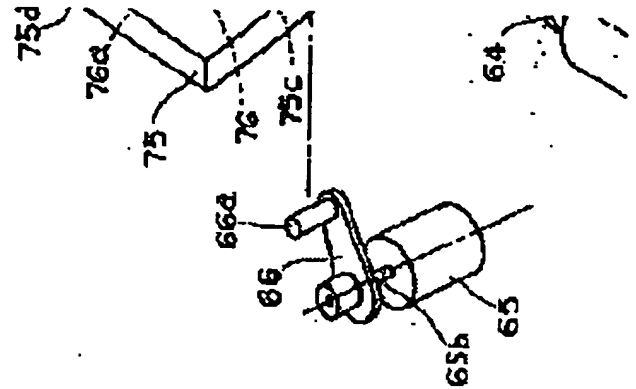
SOLUTION: As for the camera provided with an image pickup means or picking up the image of an object, a lens for forming the image on the image pickup means, a mirror arranged ahead of the lens so as to change the image pickup direction and a driving means for driving the mirror so as to change the direction of the mirror, the driving means is provided with a coil for generating a magnetic field corresponding to a current, a permanent magnet arranged



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racing the coil, and a displacement sensor such as a Hall element for detecting the relative displacement between the coil and the permanent magnet. Besides, it is allocable that the driving means is composed of a piezoelectric element.

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PROBLEM TO BE SOLVED: To provide a camera mirror unit for preventing the occurrence of image blurring, as for a camera for continuously photographing a moving image in plural various positions in an image pickup direction.

SOLUTION: As for the camera provided with an image pickup means or picking up the image of an object, a lens for forming the image on the image pickup means, a mirror arranged ahead of the lens so as to change the image pickup direction and a driving means for driving the mirror so as to change the direction of the mirror, the driving means is provided with a coil for generating a magnetic field corresponding to a current, a permanent magnet arranged facing the coil, and a displacement sensor such as a Hall element for detecting the relative displacement between the coil and the permanent magnet. Besides, it is allocable that the driving means is composed of a piezoelectric element.

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